

Introduction to Bio-Safety

Enabling Learning Objectives

- 1. Select from a list the goal of bio-safety.**
- 2. Select from a list general precautions to use to protect yourself from bio-hazards.**



Introduction to Bio-Safety

- ▮ **An awareness of bio-safety issues has significantly increased since AIDS, Hepatitis B, Streptococcus and “Killer” E. Coli outbreaks have been published.**
- ▮ **Recent regulatory requirements have led to an increased need for documentation and compliance of safety program requirements.**



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- ▮ **Regulatory agencies involved in the safety of bio-hazardous products include the following:**
 - ▮ **Occupational Safety and Health Administration (OSHA)**
 - ▮ **Environmental Protection Agency (EPA)**



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- ▮ **Goal of a bio-safety program:**
 - ▮ **To prevent disease, disability and death associated with the handling of potentially biologically hazardous materials (urine and blood).**



Introduction to Bio-Safety

- ▮ **The bio-safety goal is accomplished through:**
 - ▮ **Successful identification and removal of hazardous conditions by:**
 - ▮ **effective communication - communicating possible hazards and prevention measures to all personnel.**
 - ▮ **proper training of personnel in bio-safety procedures.**
 - ▮ **provision and use of Personal Protective Equipment (PPE) to all personnel who handle potentially hazardous materials.**
 - ▮ **Identifying and changing of habitual behaviors (like chewing on ink pens tips, etc).**



How do you reach this goal?

- ▮ What is your bio-hazard? The urine that you process during a unit collection.
- ▮ How do you remove the hazard?
 - ▮ Ensure that you use your PPE (wear gloves on both hands)
 - ▮ Ensure that you follow the precautions given in this lesson.



General Precautions

- ▣ **No eating, drinking, smoking or applying cosmetics or contact lenses in the work area.**
 - ▣ **All food and drinks are stored separately outside the restricted area. Do not eat or drink during a collection.**
 - ▣ **Personnel are instructed to avoid touching face, ears, mouth or nose with hands or other objects when wearing gloves.**
- ▣ **Wash your hands after you remove your gloves.**
- ▣ **If a partial specimen is collected, make the donor dump his/her own urine in the commode or urinal and rinse out the bottle with tap water.**



General Precautions

- ▣ **Ensure that any bottle you destroy that may have contained urine is rinsed prior to its destruction.**
- ▣ **All areas and surfaces used for specimen storage or packing should be covered with a non-porous (will not allow liquids to soak in) material and disinfected after use. (Primarily your UPL station)**
- ▣ **Pens used by you during the collection process should be disinfected after use.**
- ▣ **Check with your local military treatment facility for possible hepatitis vaccinations you may take.**